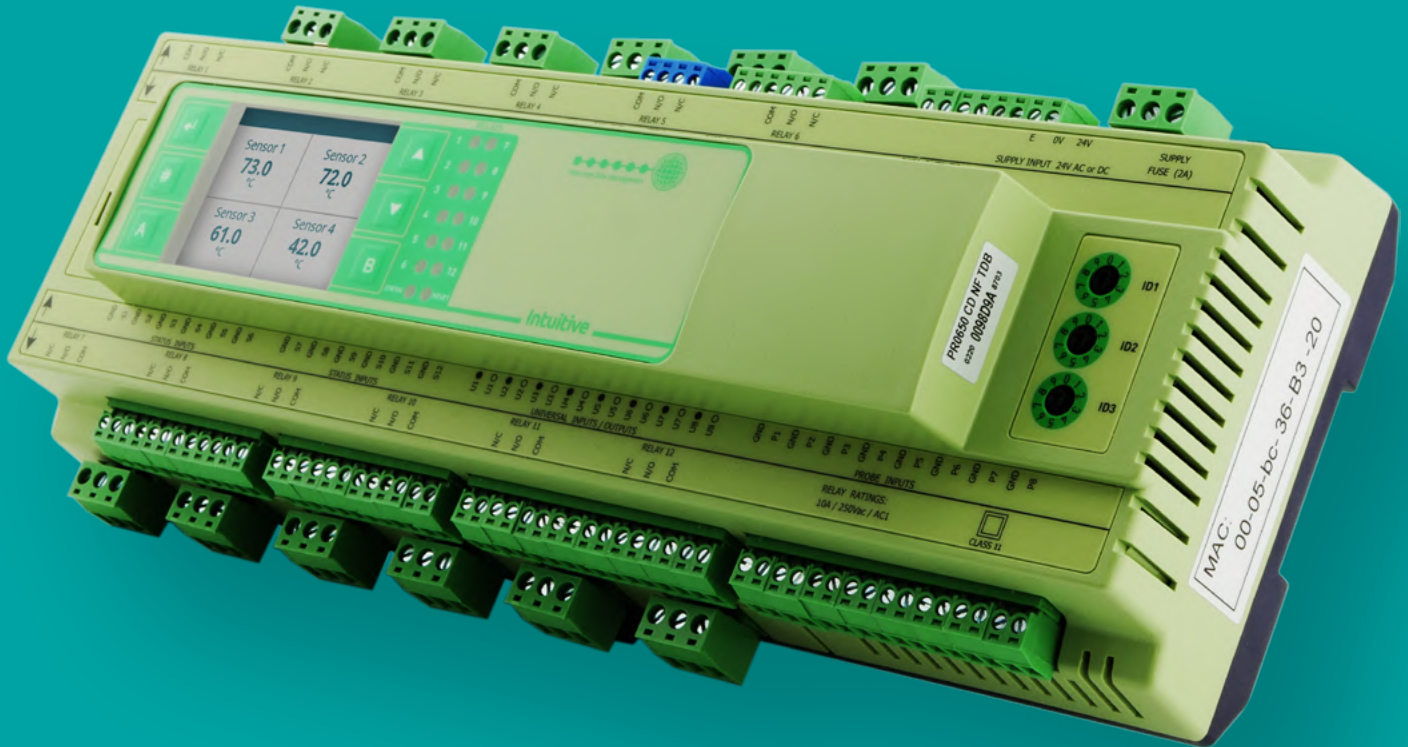


Intuitive TDB



ADVANCED, CUSTOM CONTROL FOR ANY HVAC, REFRIGERATION OR BMS APPLICATION

Designed for use in a variety of HVAC, refrigeration and lighting applications, the Intuitive range features powerful BMS controllers with the ability to control over 600 points from one device. The Intuitive TDB controller manages a custom control program created with TDB, RDM's PLC editing software. TDB can be used to implement unique strategies for HVACR control, asset monitoring, and many other BMS applications. TDB is built-in to Intuitive controllers or available to download for free from the RDM website as a desktop editor version.

The Intuitive TDB controller can host one TDB program consisting of up to 10,000 programming blocks. Featuring a full array of inputs and outputs, the controller can manage extensive, complex control strategies using real-time data such as temperatures or pressures. For applications requiring more than the on-board IO, up to ten expansion boards can be connected, providing robust control solutions for even the most challenging BMS problems.

Overview

Intuitive TDB features built-in IP communications via dual Ethernet ports allowing users to view the controller via a standard web browser. Integration with an RDM control system front-end, DMTouch or miniDM, can also be facilitated through the Ethernet IP connections.

BACnet and Web Services are supported, allowing the Intuitive TDB to be interrogated across the network by a third-party device. Using Modbus provides the capability to monitor and manage third-party devices by incorporating these devices in the PLC program logic.

Intuitive TDB also provides flexibility in its hardware configuration, options include an integrated display, built-in relay fuse protection, solid state relays or stepper motor outputs.

Key Features


- Free lifetime PLC software licences
- IP networking via XML, Web Services, BACnet and MQTT protocols
- 44 on-board control points, expandable to over 600 points
- Free TDB Desktop Editing Software
- Optional BACnet IP interface (Server device) and Modbus RS485 RTU (Client device) capabilities

Accessories

| FEATURE | PART NUMBER |
|---|-------------------------------|
| External USB to Wi-Fi Adapter | PR0657-EXT |
| BACnet Server IP Interface Enabler | PR0655-BAC |
| USB to RS485 Modbus RTU Adapter DIN | PR0623 DIN |
| Current Monitor | PR0626 |
| Intuitive Power Supply | PR0625 |
| Intuitive Expansion Boards | PR0660-PR0663, PR0681, PR0653 |
| TouchXL Intuitive 10.1" Touch Display | PR0617-ID |
| Intuitive 4" Touch Display | PR0615 |
| 8 Input High Speed Pulse Counter Module | PR0622 DIN |


5YR 5-Year Warranty

FREE Free lifetime software licences

 Open Protocols

 Asset Monitoring

Technical Specifications

| FEATURE | SPECIFICATION |
|--------------------|--|
| Inputs | 8 Temperature Probe Inputs. Probe types supported (PT1000 (default), 470R, 700R, 2K, 2K25, 3K, 5K, 6K, 10K, 10K(2), 100K) 12 Digital Inputs (24Vac or volt-free) 8 Universal IO (Up to 8 Analogue inputs, 4-20mA or 0-10Vdc) Ability to add custom curves, if required ones are not listed. 8 Temperature Probe Inputs. Probe types supported (PT1000 (default), 470R, 700R, 2K, 2K25, 3K, 5K, 6K, 10K, 10K(2), 100K) |
| Outputs | 12 Relay outputs (with optional fusing) 8 Universal IO (Up to 8 Analogue outputs, 4-20mA or 0-10Vdc), 4x PWM outputs |
| Onboard Interfaces | 2x Ethernet RJ45 Ports, 2x USB A Ports, 1x USB B Port, 1x CANbus Port, |
| Display | 2.4" Full Colour TFT Graphic LCD |
| Power | Supply Voltage Range: 24 Vac $\pm 10\%$ OR 24 Vdc $\pm 10\%$ Supply Frequency: 50 – 60 Hz $\pm 10\%$ (AC only) Maximum Supply Current: 1.8 Amp Typical Supply Current: <1 Amp |
| Environmental | Without Internal LCD Display: -40°C to +65°C (-40°F to +149°F) With Internal LCD Display or SRR fitted: -20°C to +65°C (-4°F to +149°F) Operating Humidity: 80% maximum |
| Dimensions | WxHxD: 280mm x 122mm x 67mm (11" x 4.8" x 2.6") |
| Certifications |  |

Ordering Information

| W | RELAYS | X | FUSE | Y | DISPLAY | Z | SOLID STATE RELAYS |
|---|---|----|-----------------------|----|------------------|-----|--------------------|
| 0 | 12x Relay Outputs | NF | Non Fused | CD | Integral Display | - | No SSR |
| 2 | 2x Stepper Outputs; 9x Relay Outputs | - | Fuse Protected Relays | - | No Display | E1 | Relay 1 SSR |
| | | | | | | E2 | Relays 1-2 SSRs |
| | | | | | | ↓ | ↓ |
| | | | | | | E12 | Relays 1-12 SSR's |

Example: **PR065W X Y TDB Z**